

1      WHAT IS CLAIMED IS:

2            1. A system using a computer system to provide computing as a product .  
3                to a user, where computing is supported through a dynamic computing environment,  
4                the system comprising:

5                        an interface to present components of a dynamic computing environment to  
6                the user;

7                        an interface to accept user inputs for selection of components of a dynamic  
8                computing environment;

9                        an interface to accept user inputs specifying a configuration of the dynamic  
10          computing environment;

11                        a framework for creating the dynamic computing environment from allocable  
12          resources; and

13                        an interface for the user to compute on the dynamic computing environment.

1            2. The system of claim 1, wherein the components include hardware  
2          components wherein hardware components comprising:

3                        computing devices or CPUs; and

4                        storage devices.

5            3. The system of claim 1, wherein the components include software  
2          components wherein software components comprising:

3                        operating systems; and

4                        applications software.

1            4. The system of claim 1, wherein the components include network  
2          components wherein network components comprising:

3                        network switches and ports in switches;

4                        network routers or gateways; and

5                        network security elements wherein network security elements include  
6          firewalls.

1            5. The system of claim 1, wherein the components include virtual  
2          components comprising:

3                        software licenses;

4                        network connections with specified bandwidth; and

5                        IP addresses or subnets where a subnet is a range of IP Addresses.

1            6. The system of claim 1, wherein the system further comprising:

2           a configuration manager that can save user configurations as components in  
3   the database;

4           wherein the interface to present components can present configurations as  
5   components to the user.

1           7.       The system of claim 6, wherein the system further comprising:  
2           an interface to accept user inputs for scheduling computing sessions;  
3           a scheduler to keep track of scheduled sessions and to reserve resources for  
4   sessions and to release the resources once a computing session is completed;

1           8.       The system of claim 1, wherein all the interfaces are web-based user  
2   interfaces accessible through a web client device i.e., a browser.

1           9.       A method to provide computing as a product the method comprising:  
2           the step of presenting components of a dynamic computing environment;  
3           the step of accepting user inputs for choices of components;  
4           the step of accepting user inputs for configuration of the dynamic computing  
5   environment from the chosen components;

6           the step of creating a dynamic computing environment from the configuration  
7   in response to user inputs for configuration; and

8           the step of present the dynamic computing environment to the user.

1           10.      The method of claim 9, wherein the components include hardware  
2   components wherein hardware components comprising:

3           computing devices or CPUs; and  
4           storage devices.

1           11.      The method of claim 9, wherein the components include software  
2   components wherein software components comprising:

3           operating systems; and  
4           applications software.

1           12.      The method of claim 9, wherein the components include network  
2   components wherein network components comprising:

3           network switches and ports in switches;  
4           network routers or gateways; and  
5           network security elements wherein network security elements include  
6   firewalls.

1           13.      The system of claim 9, wherein the components include virtual  
2   components comprising:

3 software licenses;  
4 network connections with specified bandwidth; and  
5 IP addresses or subnets where a subnet is a range of IP Addresses.

1 14. The system of claim 9, wherein components include user  
2 configurations.

1 15. The system of claim 14, wherein the method further comprising :  
2 the step of accepting user inputs for scheduling computing sessions;  
3 the step of scheduling requested sessions and reserving resources for sessions;  
4 and  
5 the step of releasing the resources once a computing session is completed;

6 16. A system of using a computer system to provide computing as a  
1 resource to a user, wherein the system comprising:

2 a framework for providing a dynamic computing environment using allocable  
3 resources; and  
4 wherein the dynamic computing environment is used for computing by the  
5 user.

6 17. The system of claim 16, wherein  
7 a first user computes on a first dynamic computing environment;  
8 a second user computes on a second dynamic computing environment; and  
9 the first and the second dynamic computing environment exist concurrently  
10 and share the allocable resources;

1 18. The system of claim 17, wherein the system further ensures that:  
2 the first user has secure access to the first dynamic computing environment;

3  
4 the second user has secure access to the second dynamic computing  
5 environment;

6  
7 the first user's computing has no impact on the second dynamic computing  
8 environment; and

9  
10 the second user's computing has no impact on the first dynamic computing  
environment;

1           19. The system of claim 16, wherein the system further comprises a  
2 resource monitor that monitors the allocable resources to guarantee the Quality of Service  
3 requirements of the user.

1           20. The system of claim 19, wherein the system further comprises a usage  
2 meter that measures the usage of the components of the dynamic computing environment.

1           21. The system of claim 20, wherein the system further includes a billing  
2 subsystem to convert the usage measurements and the quality of service to a bill price for the  
3 user.

1           22. The system of claim 21, wherein the billing subsystem is a pay-per-use  
2 billing system.

1           23. The system of claim 21, wherein the billing subsystem is a periodic  
2 billing system.

1           24. The system of claim 21, wherein the billing subsystem is an  
2 installment billing system.

1           25. The system of claim 21, wherein the billing subsystem is a  
3 combination of one or more billing systems.

1           31. An apparatus for providing computing as a packaged product to a user,  
2 where the package is a dynamic computing environment on which the user computes, the  
3 apparatus configured to perform the following method:

4           accepting one or more user inputs for components of the dynamic computing  
5 environment and configuration of the same;

6           configuring the dynamic computing environment;

7           presenting the package as a product to the user;

8           billing the user for the product based on the price of the components.

1           32. The apparatus of claim 31, further configured to perform the steps:

2           accepting a schedule of one or more user computing sessions;

3           scheduling the sessions and reserving resources for the dynamic computing

4 environments for those sessions; and

5           releasing the resources on session completion.